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FIG. 4a

Colony generation on tubes functionalised with oligonucleotide p57 (control). Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 0.10 fmol/tube.

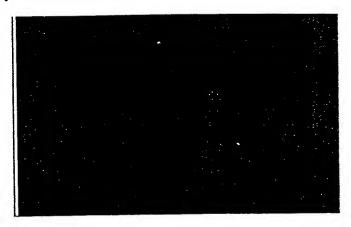
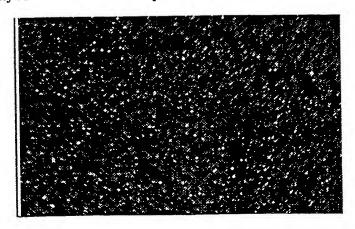


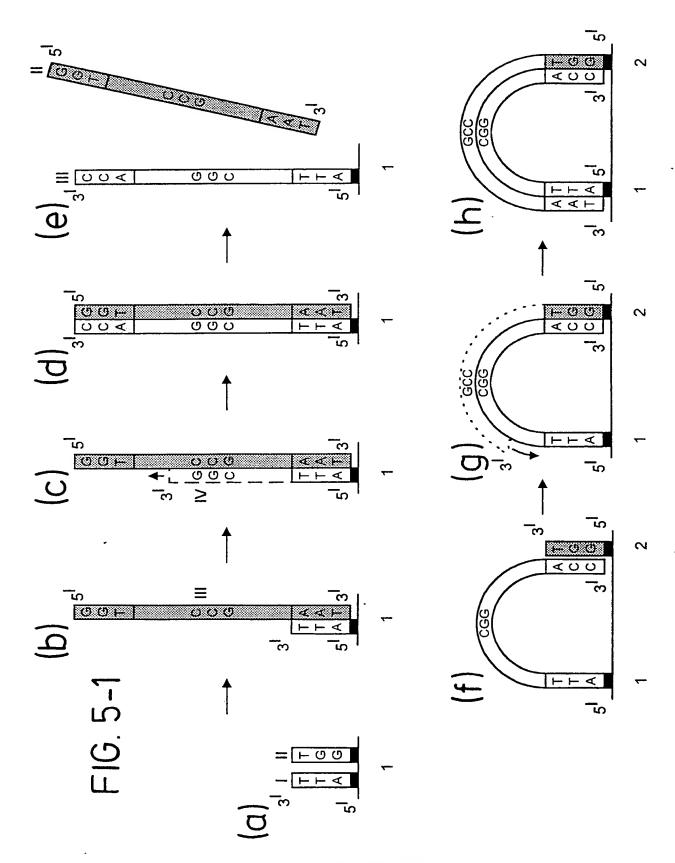
FIG. 4b

Colony generation on tubes functionalised with oligonucleotide p58. Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 6.2 fmol/tube



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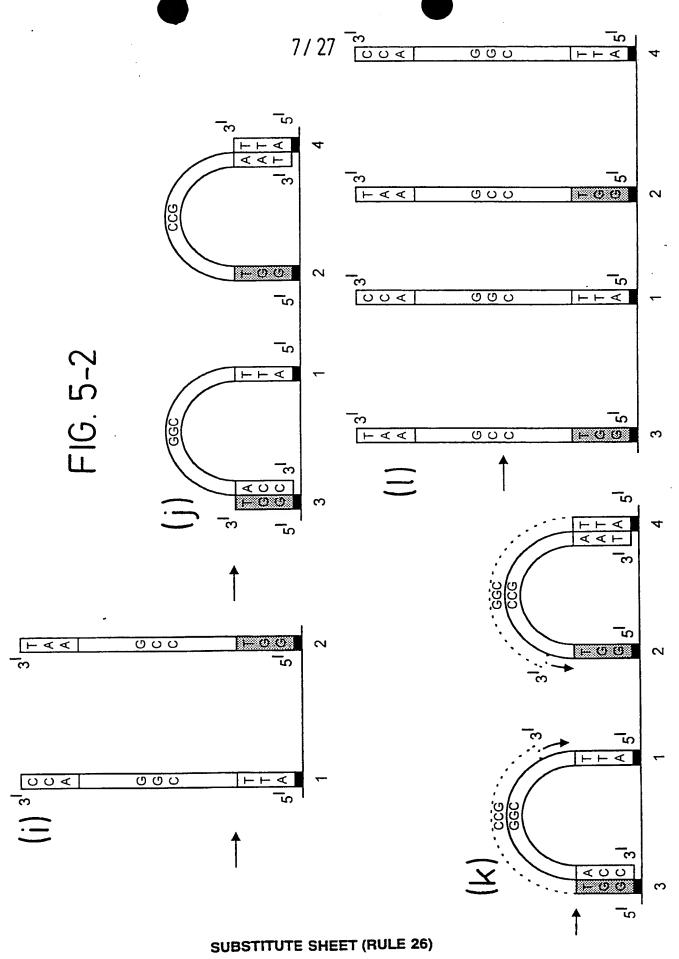
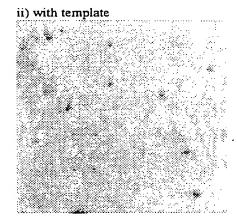


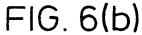


FIG. 6(a)

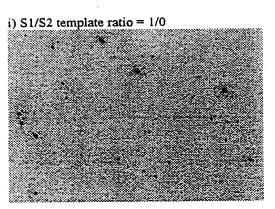
DNA amplification - detection of colonies with DNA intercalating dyes

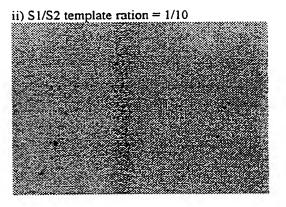
i) control

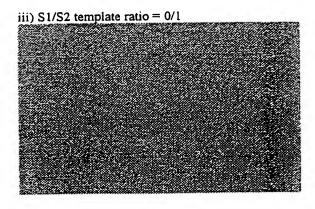




DNA amplification; detection of colonies by specific probe hybridisation

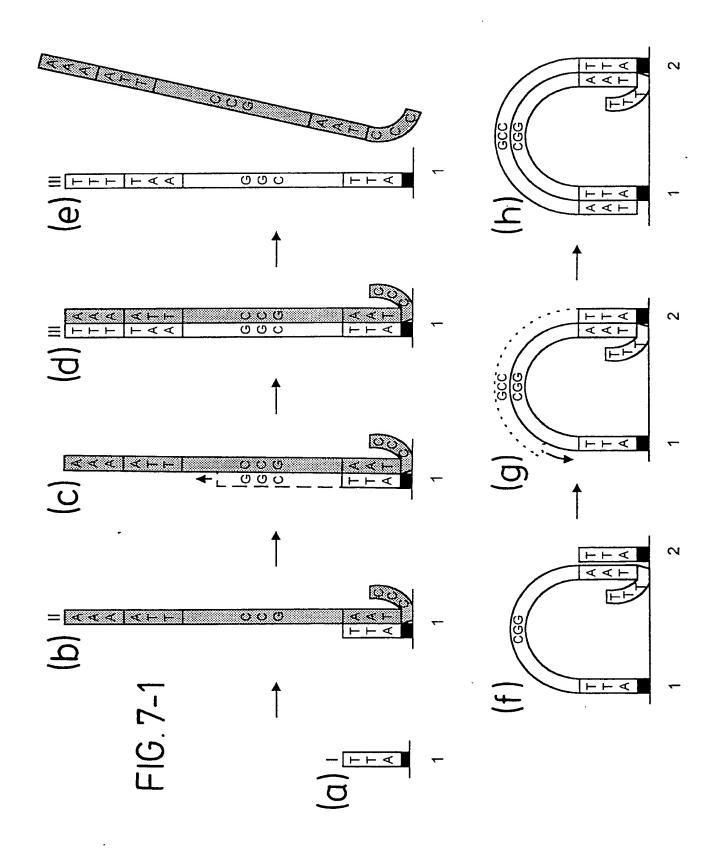






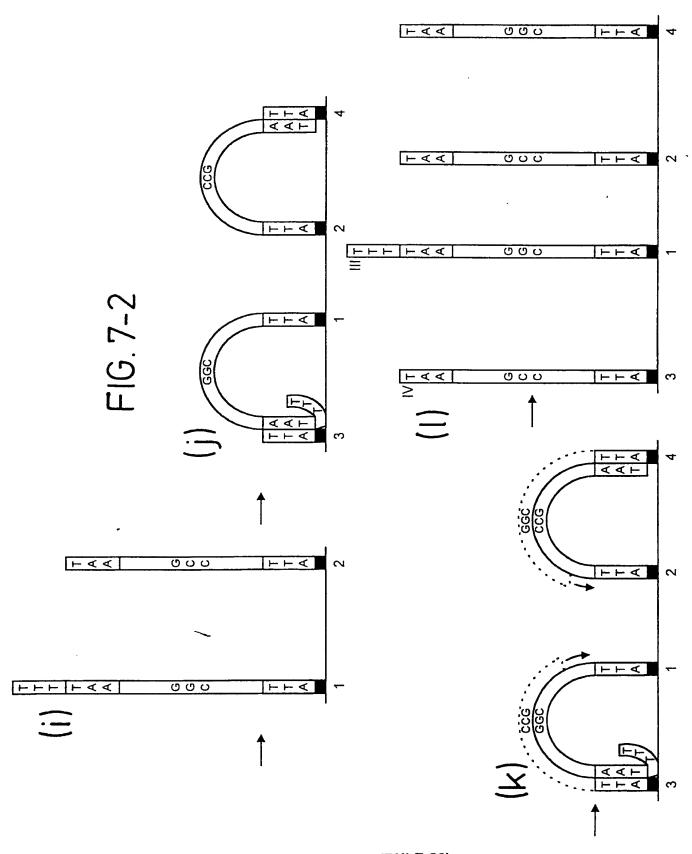
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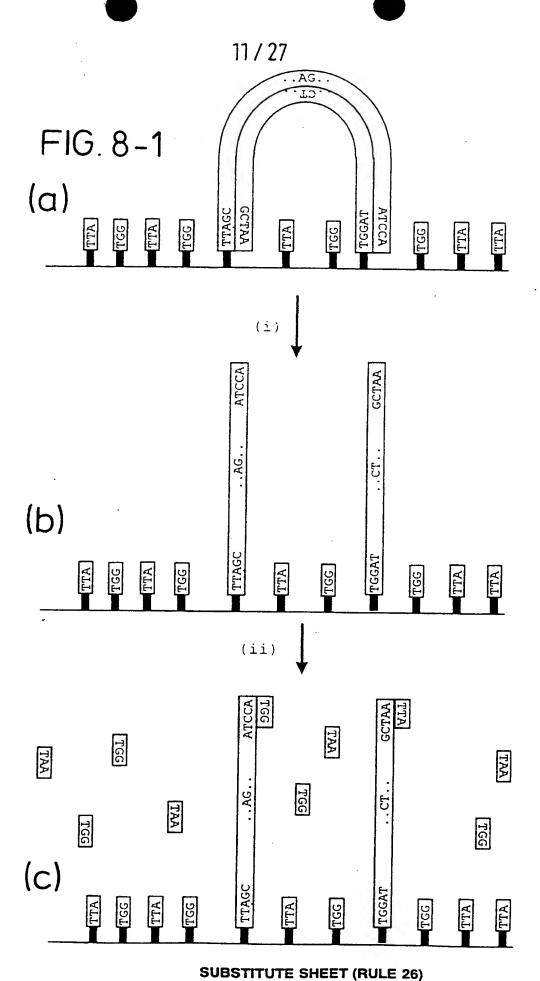


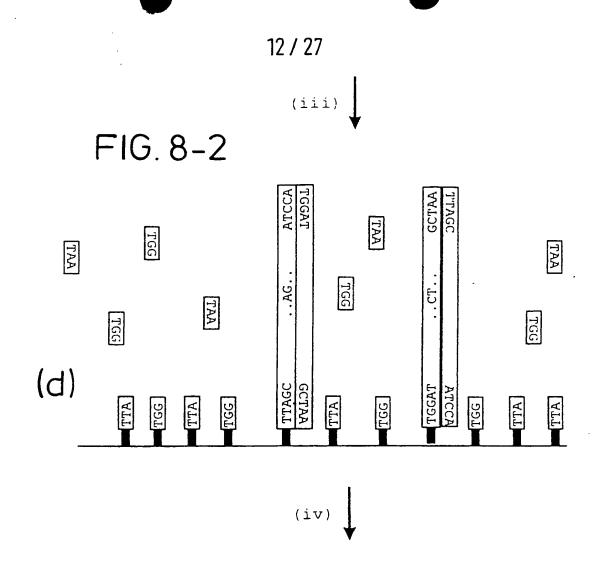
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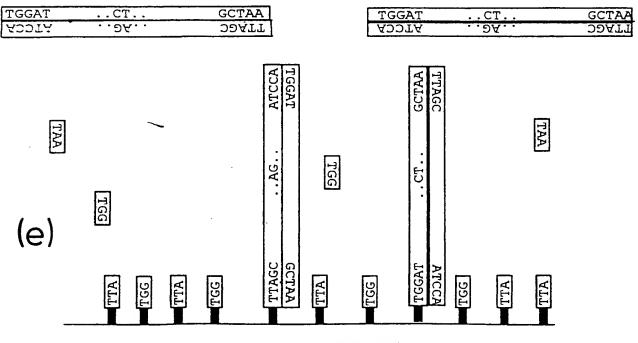
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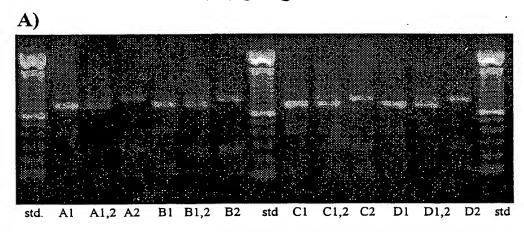






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FIG. 9

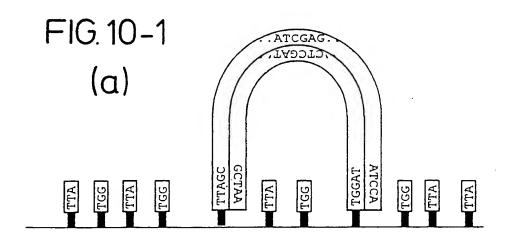


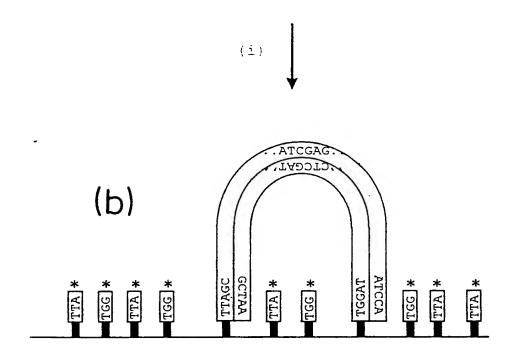
B)



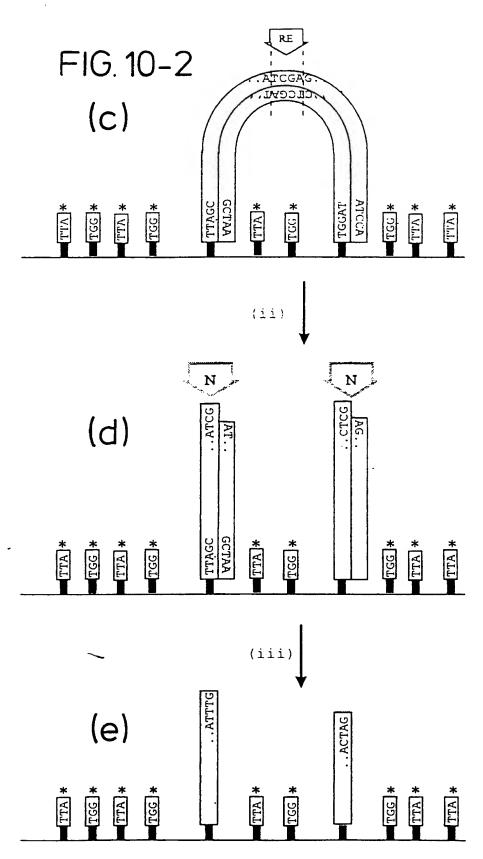
std. E1 E1,2 E2 F1 F1,2 F2 std

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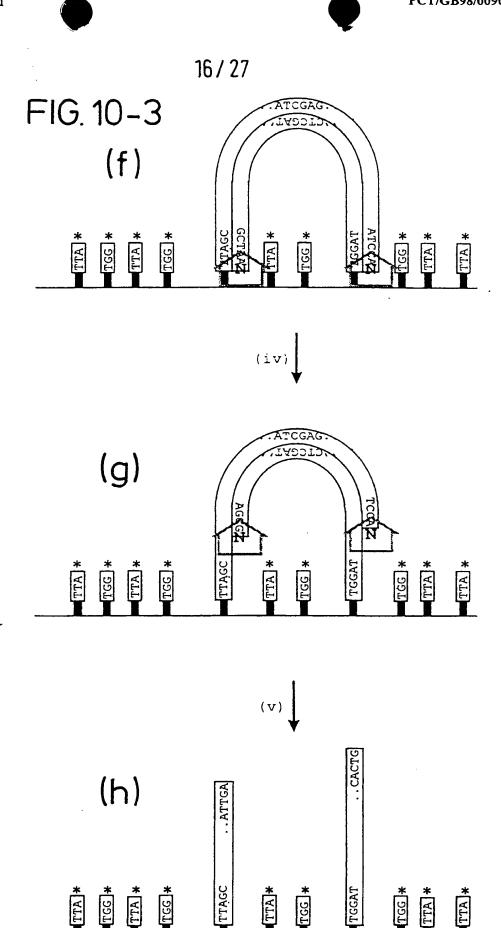




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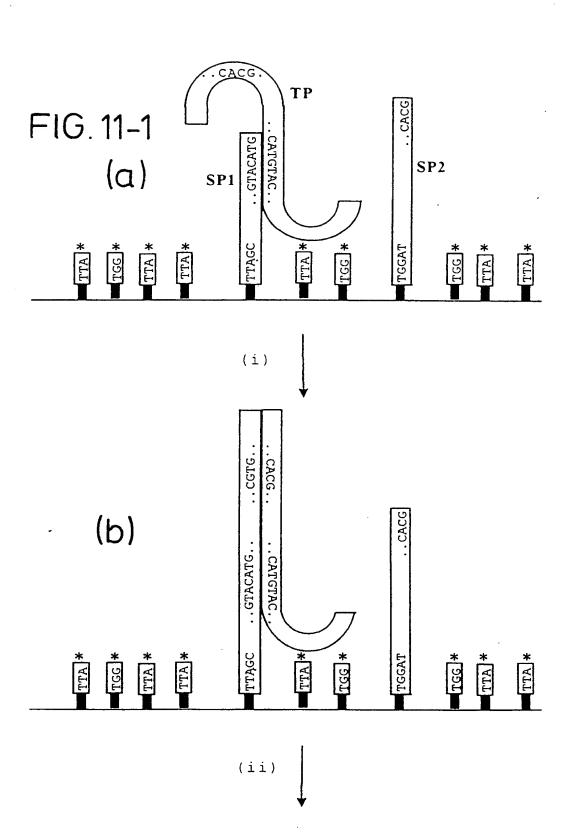


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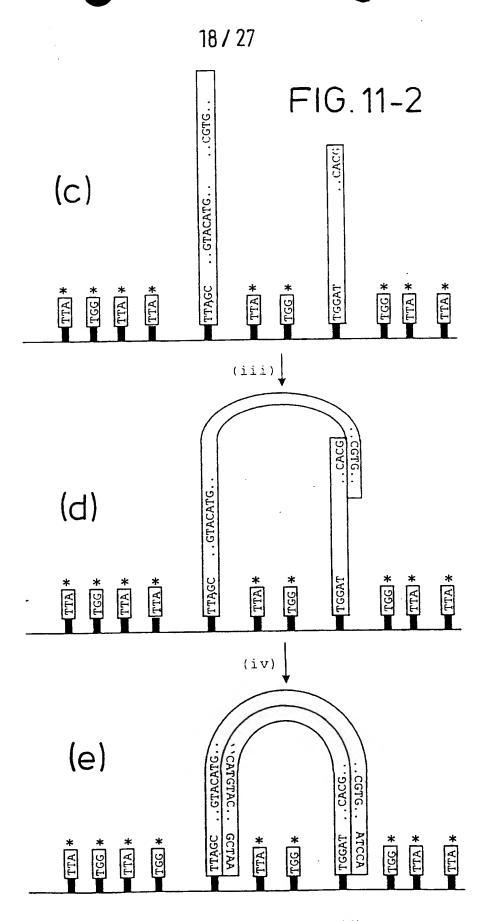


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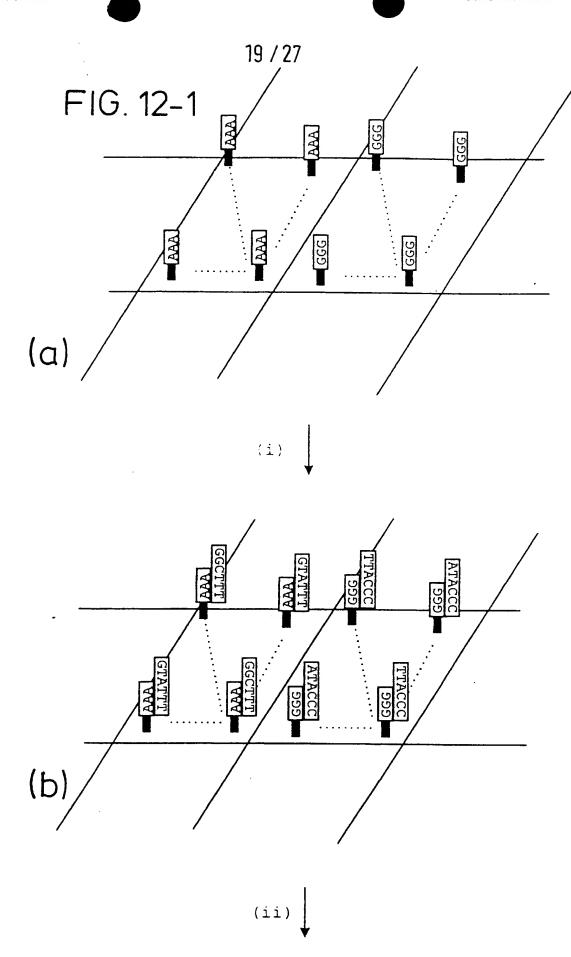
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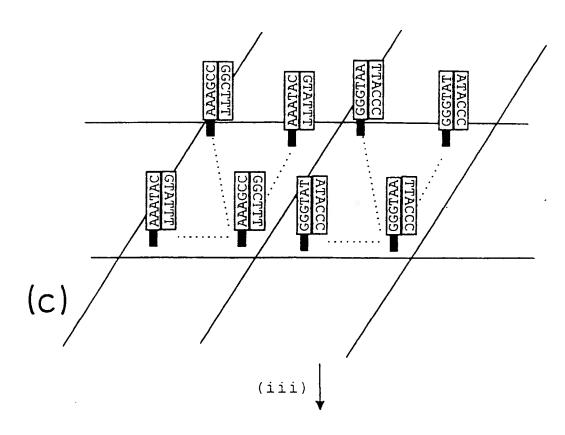


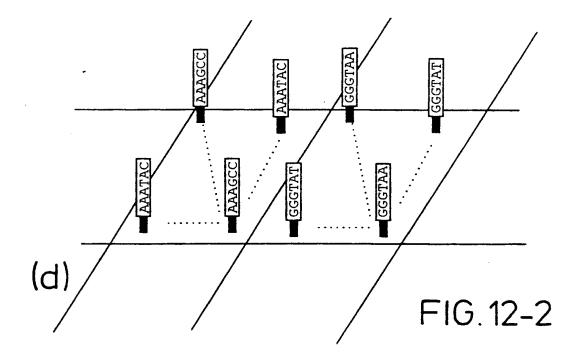
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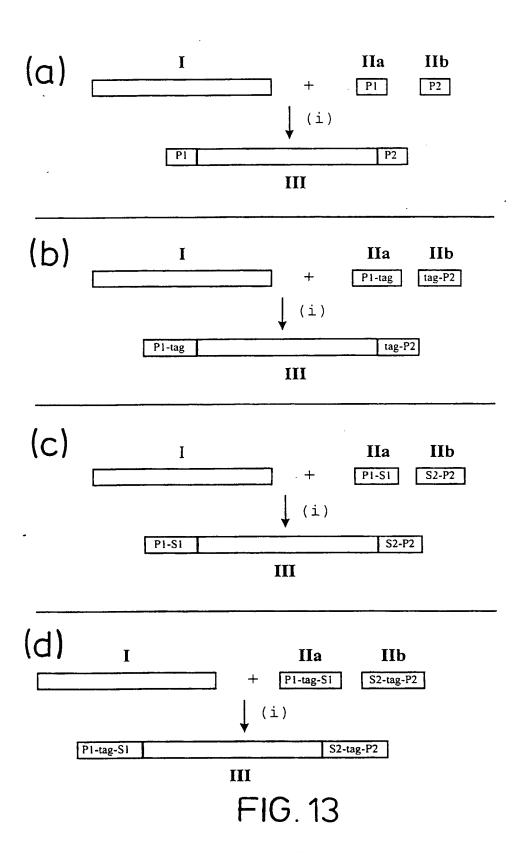
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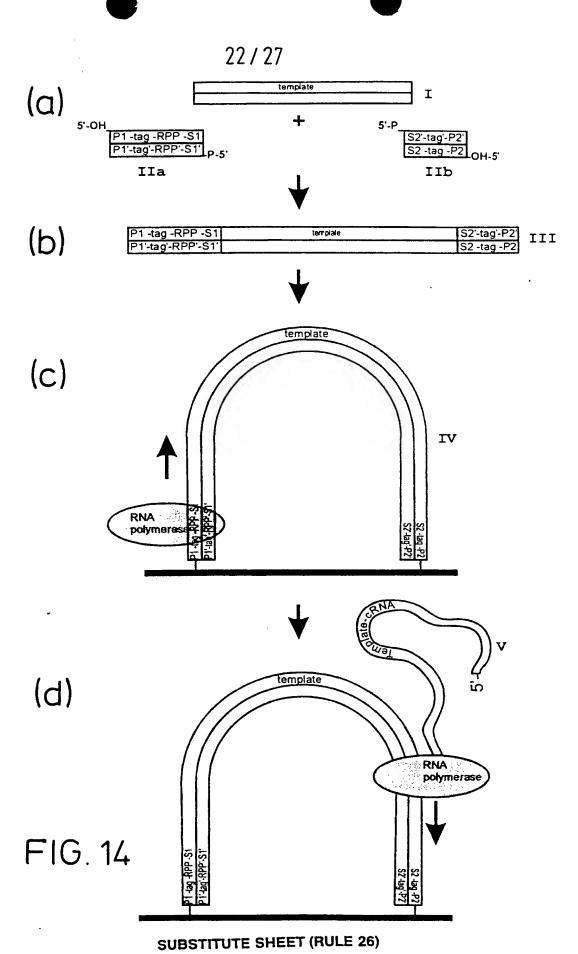




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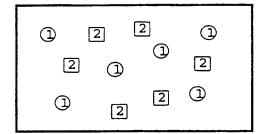
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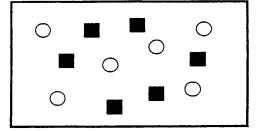
in situ Sequencing



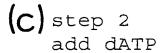


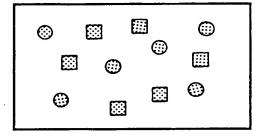
Two types of randomly arrayed DNA colonies

(b) step 1 add dGTP



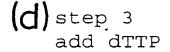
f)

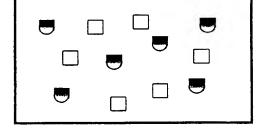




AA

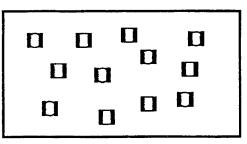
G





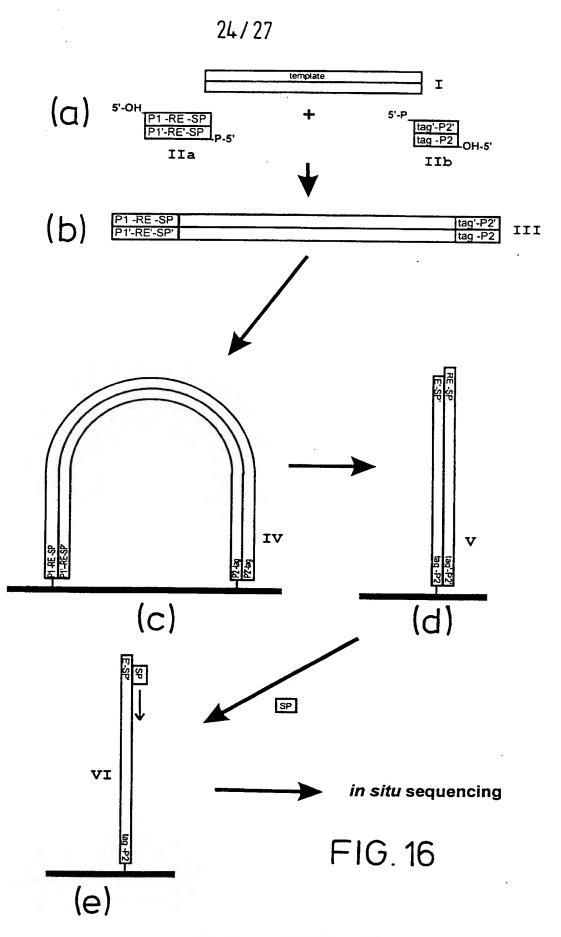
T

(e) step 4 add dCTP



DNA sequence:

type 1: ATC type 2: GAC



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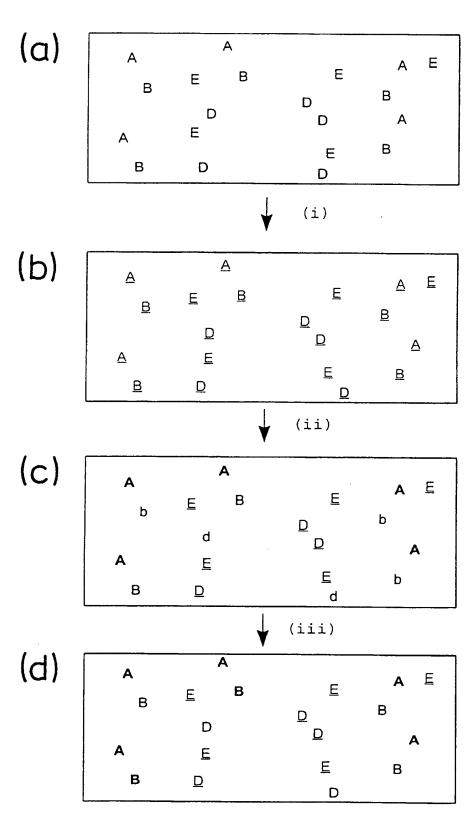
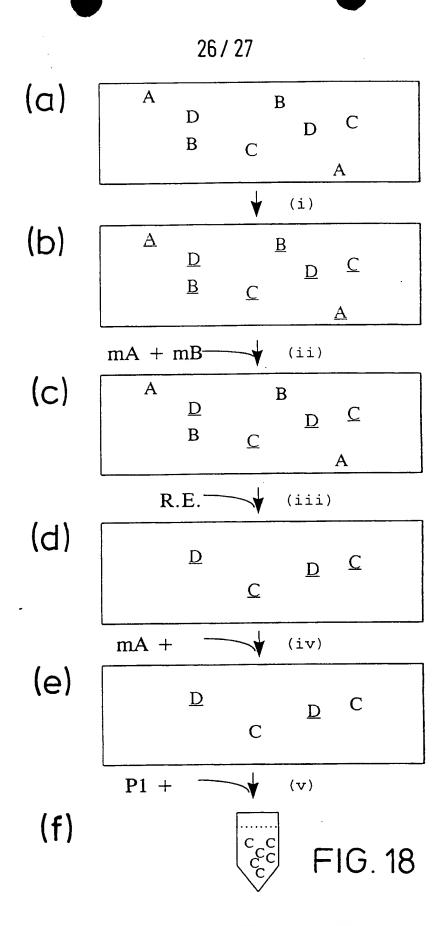
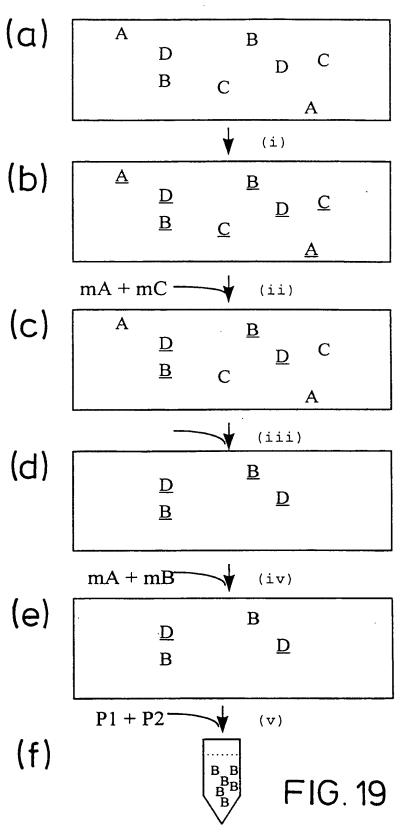


FIG. 17

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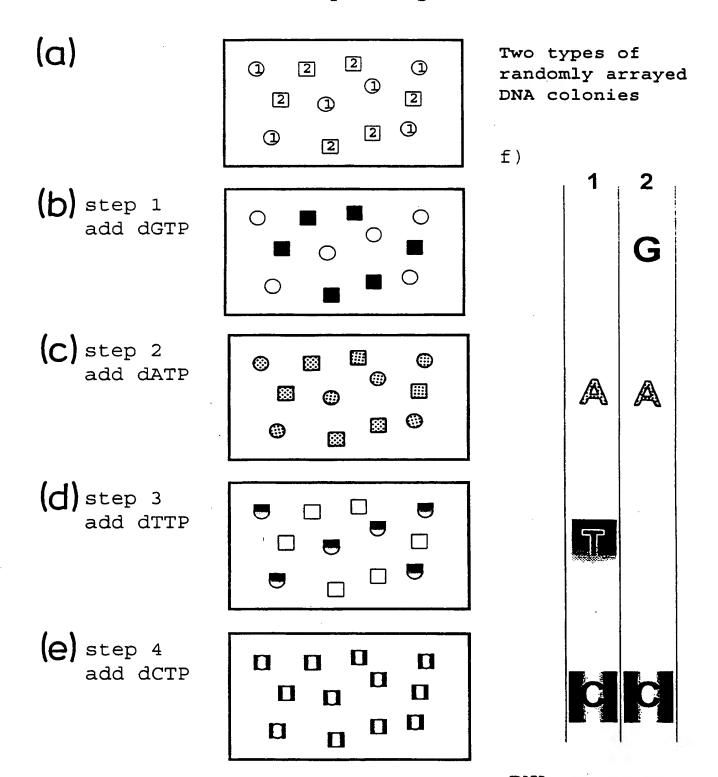


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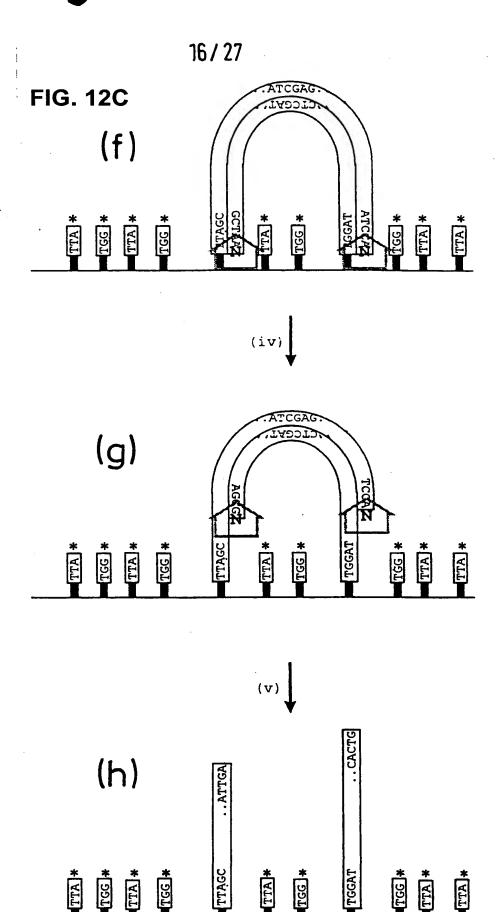
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FIG. 17
in situ Sequencing



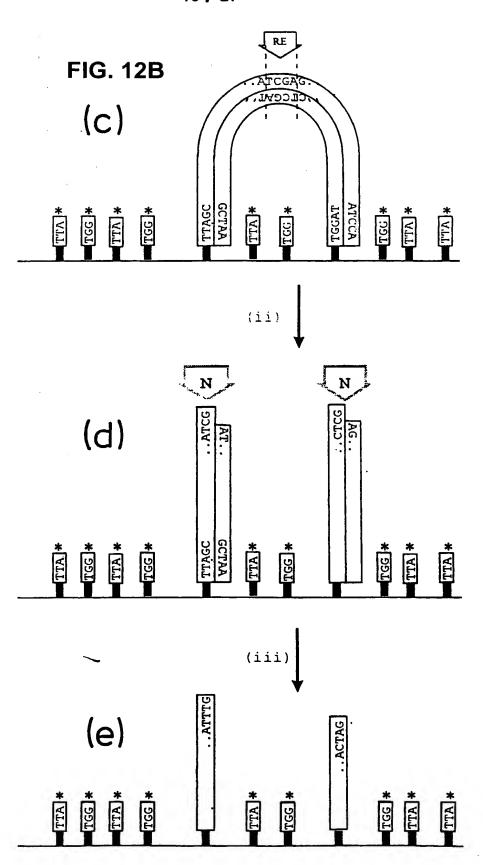
DNA sequence: type 1: ATC type 2: GAC





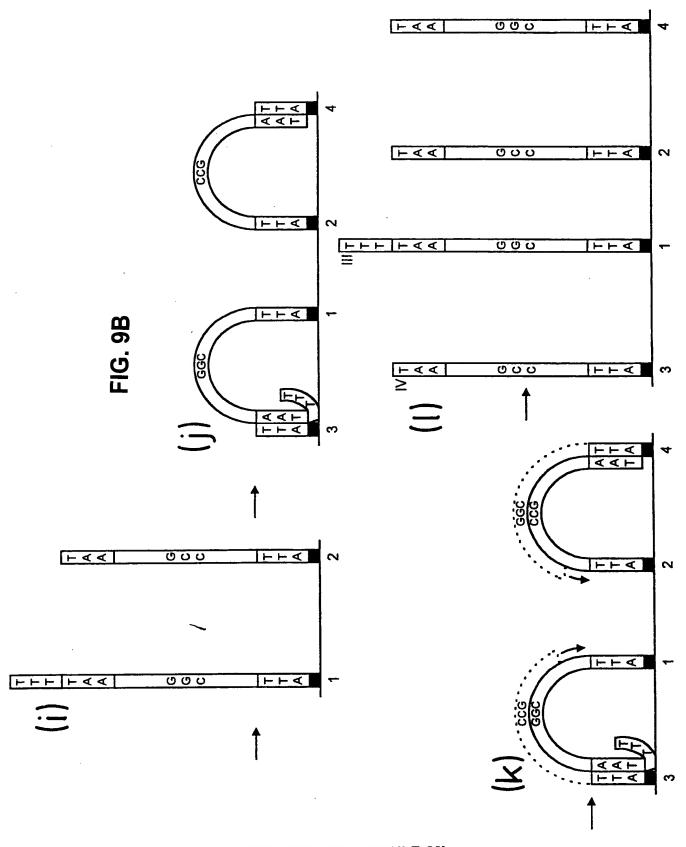
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